

RECANALIZATION OF OCCLUDED VESSEL USING MAGNETIC RESONANCE GUIDANCE

ABSTRACT OF THE DISCLOSURE

- 5 A method and apparatus for recanalizing a substantially totally occluded vessel in a subject. An image of the substantially totally occluded vessel is obtained using magnetic resonance. A recanalization device is guided using the obtained image. The occlusion is recanalized with the recanalization device. In one embodiment, a magnetic
- 10 resonance signal is received with at least one external antenna located external to the body of the subject. A map image of the occluded vessel is generated using the signal received by the external antenna. A magnetic resonance signal is received with an internal antenna positioned within the body of the subject, proximate to the occluded
- 15 vessel. The map image of the occluded vessel is locally enhanced using the signal received by the internal antenna.